

State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Well Operator's Report of Well Work

API 47 - 095 - 02867 County Tyler District Lincoln  
Quad Paden City Pad Name Dry Run Pad Field/Pool Name -----  
Farm name David E. Bowyer Well Number Tangerine Unit 2H  
Operator (as registered with the OOG) Antero Resources Corporation  
Address 1615 Wynkoop Street City Denver State CO Zip 80202

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4378020.483m Easting 507595.934m  
Landing Point of Curve Northing 4353624.10m Easting 539534.33m  
Bottom Hole Northing 4383593.549m Easting 506661.305m

Elevation (ft) 1007' GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine

Mud Type(s) and Additive(s)  
Air - Foam & 4% KCL

Mud - Polymer

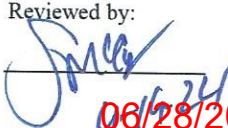
Date permit issued 4/24/2023 Date drilling commenced 5/10/2023 Date drilling ceased 9/15/2023  
Date completion activities began 11/1/2023 Date completion activities ceased 12/12/2023  
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 382' Open mine(s) (Y/N) depths No  
Salt water depth(s) ft 1653' Void(s) encountered (Y/N) depths No  
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths No  
Is coal being mined in area (Y/N) No

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West Virginia Department of Environmental Protection

**APPROVED**

Reviewed by:  
  
06/28/2024

API 47-095 - 02867 Farm name David E. Bowyer Well number Tangerine Unit 2H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	28"	20"	125.5'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	615'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3580'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	26118'	New	20#, P-100	N/A	Y
Tubing		2-3/8"	7188'		4.7#, P-110		
Packer type and depth set	N/A						

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	209 sx	15.6	1.18	247	0'	8 Hrs.
Surface	Class A	689 sx	15.6	1.20	823	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1214 sx	15.6	1.20	1457	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	4520 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.26 (Tail)	5695	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 26118' MD, 6276' TVD (BHL), 6299' (Deepest Point Drilled)      Loggers TD (ft) 26118' MD  
 Deepest formation penetrated Marcellus      Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 6279'

Check all wireline logs run       caliper     density     deviated/directional     induction  
 neutron     resistivity     gamma ray     temperature     sonic

Well cored     Yes     No      Conventional     Sidewall      Were cuttings collected     Yes     No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_\_\_\_  
 Conductor - 0  
 Surface - 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface  
 Intermediate - 1 above float joint, 1 above float collar, 1 every 4th joint to surface  
 Production - 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement

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WAS WELL COMPLETED AS SHOT HOLE     Yes     No      DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?     Yes     No      DETAILS \_\_\_\_\_

WERE TRACERS USED     Yes     No      TYPE OF TRACER(S) USED N/A

06/28/2024

API 47- 095 - 02867 Farm name David E. Bowyer Well number Tangerine Unit 2H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
<b>*PLEASE SEE ATTACHED EXHIBIT 1</b>					

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
<b>*PLEASE SEE ATTACHED EXHIBIT 2</b>								

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6232' (TOP)</u> TVD	<u>7434' (TOP)</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 1607 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 5602 mcfpd Oil 302 bpd NGL --- bpd Water 657 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	

**\*PLEASE SEE ATTACHED EXHIBIT 3**


Please insert additional pages as applicable.

Drilling Contractor H & P Drilling  
Address 912 N Eagle Valley Rd City Howard State PA Zip 16841

Logging Company Nine Energy Services  
Address 6500 West Fwy City Fort Worth State TX Zip 76116

Cementing Company Schlumberger US Land  
Address 1080 US-33 City Weston State WV Zip 26457

Stimulating Company Halliburton  
Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

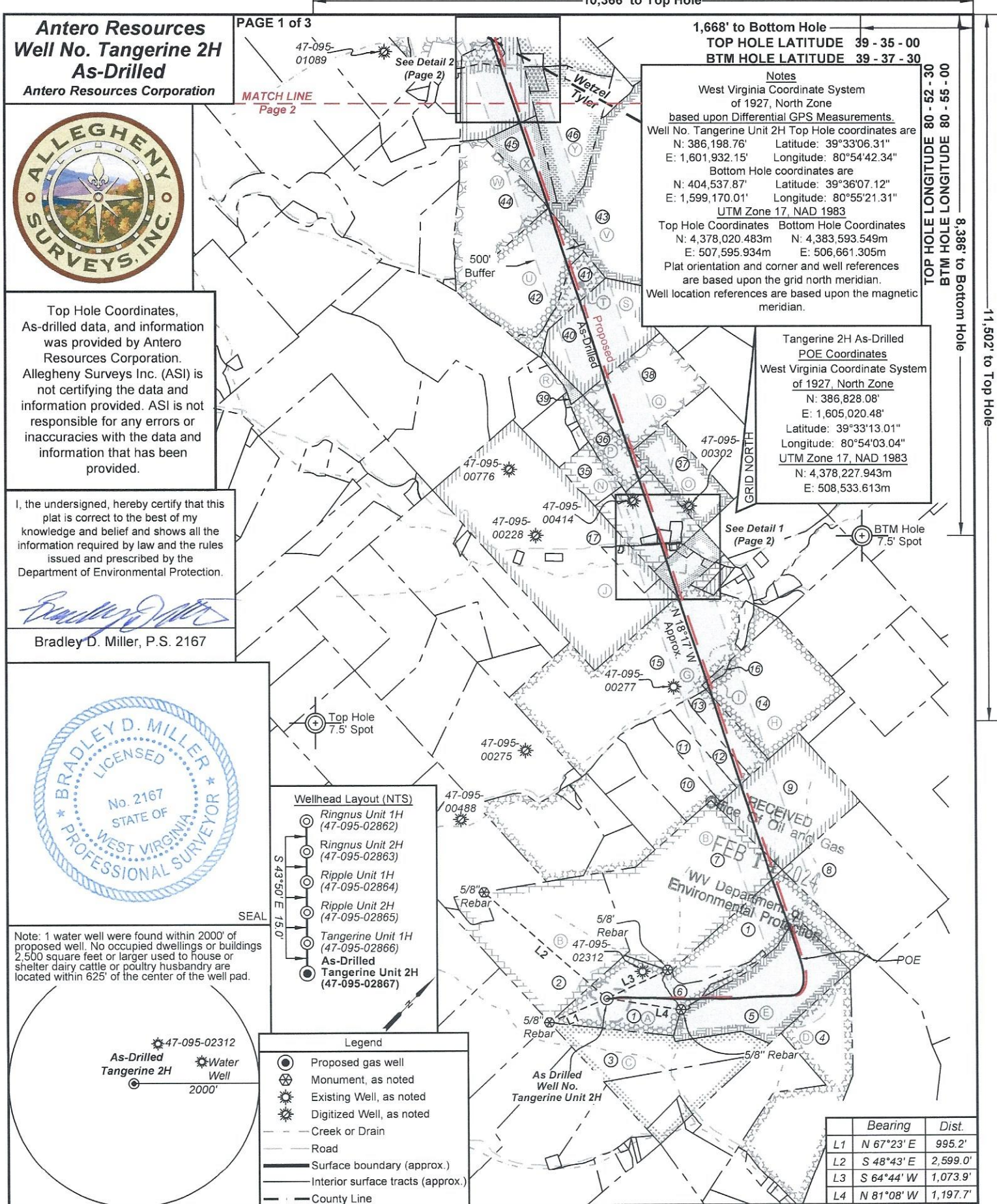
Please insert additional pages as applicable.

Completed by Carly Marvel Telephone 303-357-7373  
Signature Carly Marvel Title Permitting Agent Date 2/9/2024

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

Office RECEIVED  
Office of Oil and Gas  
FEB 14 2024  
WV Department of Environmental Protection  
Zip 26457

06/28/2024



**Antero Resources**  
**Well No. Tangerine 2H**  
**As-Drilled**  
 Antero Resources Corporation

PAGE 1 of 3

10,366' to Top Hole

1,668' to Bottom Hole

TOP HOLE LATITUDE 39 - 35 - 00  
 BTM HOLE LATITUDE 39 - 37 - 30

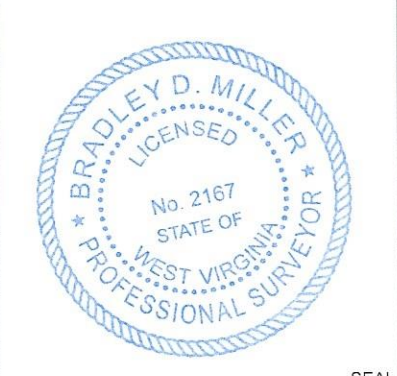
**Notes**  
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.  
 Well No. Tangerine Unit 2H Top Hole coordinates are  
 N: 386,198.76' Latitude: 39°33'06.31"  
 E: 1,601,932.15' Longitude: 80°54'42.34"  
 Bottom Hole coordinates are  
 N: 404,537.87' Latitude: 39°36'07.12"  
 E: 1,599,170.01' Longitude: 80°55'21.31"  
 UTM Zone 17, NAD 1983  
 Top Hole Coordinates Bottom Hole Coordinates  
 N: 4,378,020.483m N: 4,383,593.549m  
 E: 507,595.934m E: 506,661.305m  
 Plat orientation and corner and well references are based upon the grid north meridian.  
 Well location references are based upon the magnetic meridian.



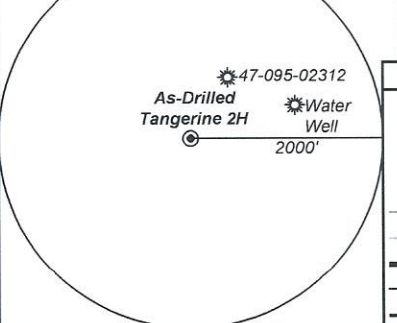
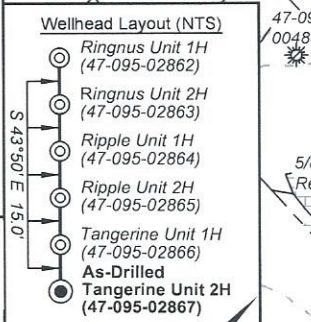
Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

*Bradley D. Miller*  
 Bradley D. Miller, P.S. 2167



Note: 1 water well were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



**Tangerine 2H As-Drilled POE Coordinates**  
 West Virginia Coordinate System of 1927, North Zone  
 N: 386,828.08'  
 E: 1,605,020.48'  
 Latitude: 39°33'13.01"  
 Longitude: 80°54'03.04"  
 UTM Zone 17, NAD 1983  
 N: 4,378,227.943m  
 E: 508,533.613m

	Bearing	Dist.
L1	N 67°23' E	995.2'
L2	S 48°43' E	2,599.0'
L3	S 64°44' W	1,073.9'
L4	N 81°08' W	1,197.7'

FILE NO: 14-54-L-23  
 DRAWING NO: Tangerine 2H As-Drilled  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: Submeter  
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

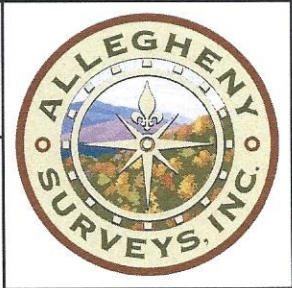
**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**OIL AND GAS DIVISION**

DATE: January 17 20 24  
 OPERATOR'S WELL NO. Tangerine 2H  
 API WELL NO  
 47 - 95 - 02867  
 STATE COUNTY PERMIT

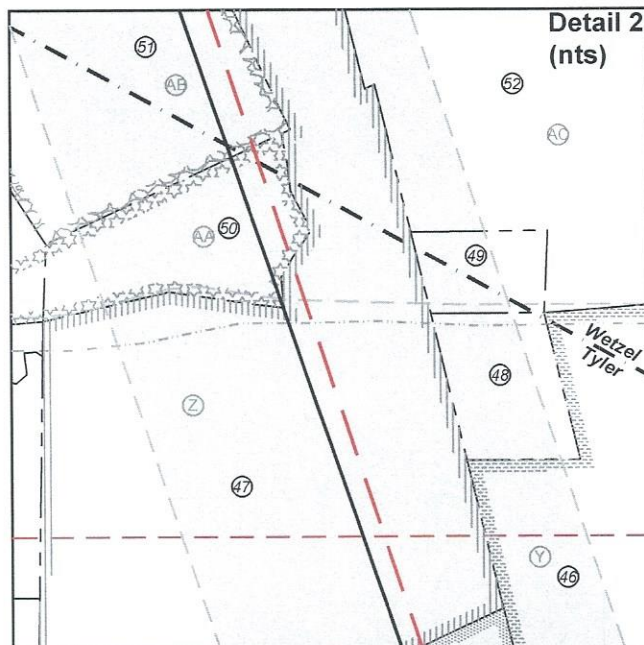
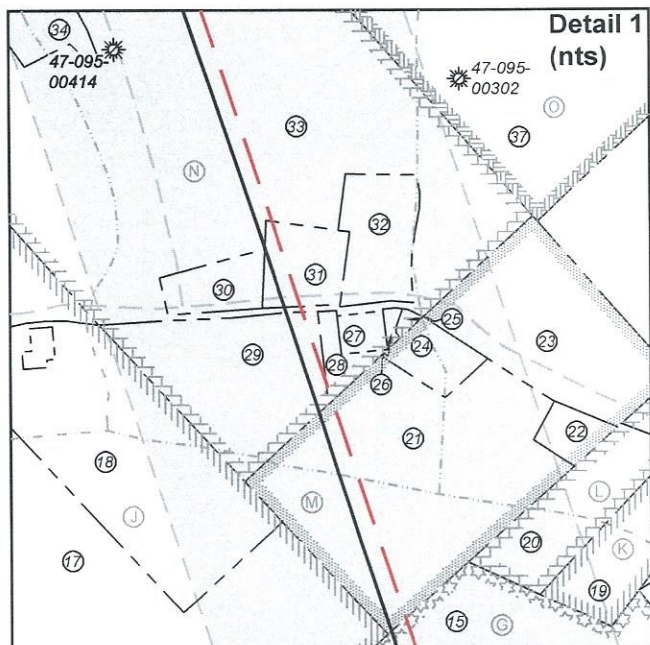
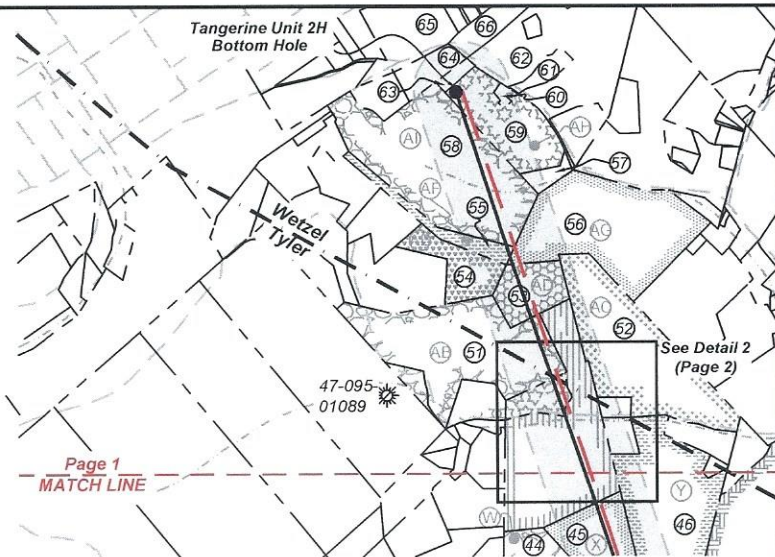
WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION: ELEVATION: As-Built 1,007' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Paden City 20,  
 DISTRICT: Lincoln/Magnolia Maranda S. Quinn; Earl P. Kendle; Ronald F. Billiter (3); George L. More, et ux; 93.167; 64; 190.043;  
 SURFACE OWNER: David E. Bowyer Lawrence Grayson Walker, III, et ux; Bernard Lipscomb, Jr., et ux; Michael Dail Stillwagon; 60; 1.067; 267.113;  
 ROYALTY OWNER: Timothy L. VanCamp; Bounty Minerals, LLC; BRC Appalachian Minerals I, LLC; Clinton Lease; Carolyn J. Davis; Richard A. Slider; Dena Raye Grimes; Ridgeway Royalties, LLC; 62.933; 12.5; 45.25;  
 PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6,276' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,118' MD  
 ACREAGE: 85.785 66/28/2024  
 ACREAGE: 15.20, 34.82188; 4

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis  
 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.  
 Denver, CO 80202 Bridgeport, WV 26330

**Antero Resources**  
**Well No. Tangerine 2H**  
**As-Drilled**  
 Antero Resources Corporation



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FILE NO: 14-54-L-23  
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 MINIMUM DEGREE OF ACCURACY:  
 Submeter  
 PROVEN SOURCE OF ELEVATION:  
 WVDOT, Harrisville, WV

**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**OIL AND GAS DIVISION**

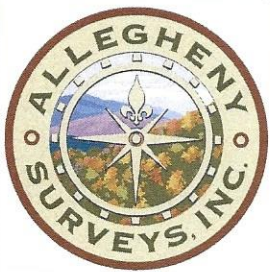
DATE: January 17 20 24  
 OPERATOR'S WELL NO. Tangerine 2H  
 API WELL NO  
 47 - 95 - 02867  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION: As-Built 1,007' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Paden City 93.167; 64; 190.043;  
 DISTRICT: Lincoln/Magnolia COUNTY: Tyler 60; 1.067; 267.113;  
 SURFACE OWNER: David E. Bowyer ACREAGE: 85.785 62.933; 12.5; 45; 25;  
 ROYALTY OWNER: Timothy L. VanCamp; Bounty Minerals, LLC; BRC Appalachian Minerals I, LLC; Clinton Lease; LEASE NO: ACREAGE: 15.20; 34.82188; 4  
 8.89; 131.043; 34.75;  
 13.875; 4.462; 39.5;

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
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Leases	
A	Timothy L. VanCamp
B	BRC Appalachian Minerals I LLC
C	Tamara M. Reynolds
D	Jefferson Minerals, LLC
E	Bounty Minerals, LLC
F	Robert N. & Rita Paulette Christen
G	J. Maurice Carlisle, Jr.
H	Charles A. Daugherty
I	J. Maurice Carlisle, Jr.
J	John Paul Buck, et ux
K	Michael H. Glover, et ux
L	Robert N. Christen, et ux
M	EDCO Minerals, LLC
N	George Heslep, et ux
O	Sharon L. Garrison, et vir
P	Carolyn J. Davis
Q	Richard A. Slider
R	Mary Evans
S	Dena Raye Grimes
T	George L. Moore, et ux
U	Ridgetop Royalties, LLC
V	Lawrence Grayson Walker, III, et ux
W	Heritage Resources - Marcellus Minerals, LLC
X	Clinton Leasure
Y	Clinton Leasure
Z	Bernard Lipscomb, Jr., et ux
AA	Robert W. Cross, et ux
AB	Michael Dail Stillwagon
AC	Ralph Job Howell Trust
AD	Ronald F. Billiter
AE	Ronald F. Billiter
AF	Ronald F. Billiter
AG	Ronald F. Billiter
AH	Maranda S. Quinn
AI	Earl P. Kendle

ID	TM-Par	Owner	Bk/Pg	Acres
1	9-19	David E. Bowyer	OR16/22	85.79
2	9-17	Ethan A. & Marsha L. Riffle	323/649	90.04
3	9-31.1	David E. Bowyer	OR16/22	38.04
4	9-33	David E. Bowyer	OR105/516	69.169
5	9-21	Thomas K. Brotherton	23/310	64.00
6	9-20	Jason & Jessica Greathouse & Laken Curtis	OR59/513	7.38
7	9-18	Michael V. & Debra K. Smith	331/94	100.00
8	9-11	Ralph D. & Mary Jo Koontz	201/424	83.14
9	9-10	Robert N. & Rita Paulette Christen	337/632	60.00
10	9-8	Tammy Williams & Alf Riggs	372/134	25.24
11	9-8.1	Steven Wayne & Cynthia Dennis	317/540	13.41
12	9-7.4	Terry L. Nelson, et al	456/828	10.78
13	9-7.2	Robert N. & Rita Paulette Christen	339/333	13.05
14	5-51	Charles A. Daugherty	270/460	58.93
15	9-7.1	Carl L. & Donna M. Yoho	320/456	117.00
16	5-51.1	Carl L. & Donna M. Yoho	323/475	1.06
17	5-19	John P. & Susan Buck	337/634	159.21
18	5-23	John Paul & Susan Buck	337/632	5.00
19	5-49.2	Joseph N. & Amy J. Glover	479/704	2.08
20	5-49.3	Robert N. & Rita Paulette Christen	317/195	2.06
21	5-43	Shelva Buck	OR95/635	7.68
22	5-43.1	Robert N. & Rita P. Christen	296/328	0.49
23	5-44	Lorisa Lea George	OR94/182	3.75
24	5-42	John Paul & Susan Buck	192/128	0.69
25	5-24.9	John Paul & Susan Buck	347/789	0.06
26	5-24.10	Thomas J. & Lue Ann Cooper	348/793	0.07
27	5-24.1	Thomas J. & Lue Ann Cooper	224/568	0.27
28	5-24.8	Thomas J. & Lue Ann Cooper	348/87	0.37
29	5-24.6	James G. & Brittany E. Flesher	577/289	3.82
30	5-24.4	Becky L. Anderson	299/173	0.75
31	5-24.3	Becky L. Anderson	303/82	1.01
32	5-24.7	Rebecca D. Cooper & Joseph H. Thomas	340/280	1.42
33	5-24	Jamie Lee Moore and Cathy Jean Moore	419/556	25.22
34	5-24.2	Todd A. Keller	312/346	1.00
35	5-24.5	Jessica D. & Jonathan L. Moffit	565/511	11.19
36	5-28	Reed J. Davis	175/220	14.00
37	5-25	Sharon L. (Ice) & Mark Cariton Garrison	263/004	25.99
38	5-27	Robert L. Oldham and Cynthia M. Oldham, et al	OR24/300	45.00
39	5-31.1	Ronnie Tate & Ellen Jane Eddy	304/292	6.00
40	5-32	Meghan E. Britton	OR135/173	48.99
41	5-33	George L. & Marie Moore	204/45	20.00
42	5-33.1	Judy K. Chichick	437/566	50.00
43	5-65	Lawrence G. Walker, III & Amelia A. Walker	387/89	131.04
44	2-15	Karl F. Evans, et al	576/763	45.80
45	2-21	Clinton Leasure	512/549	13.88
46	16-43	Clinton Leasure	428/155	30.06
47	2-18	Bernard Jr. & Ellen Lipscomb	163/177	34.75
48	2-20	John Stephen & Patricia Ann Lyons	250/243	2.60
49	16-43.1	Douglas C. & Linda K. Harris	432/750	1.62
50	2-19	Robert Wayne Cross	282/184	4.46
51	2-4	Timothy J. & Tiffany D. Michael	575/824	37.50
52	16-16	Howell Ralph Job Trust	421/33	37.52
53	15-11	Ronald F. Billiter	288/288	8.89
54	15-9	Ronald F. Billiter	281/249	10.00
55	15-10	Ronald F. Billiter	343/175	4.00
56	16-2	Ronald Billiter	288/288	34.82
57	16-1	Nelle G. Tuttle	WB40/552	2.23
58	15-3	Earl P. Kendle, Sr.	WB47/333	37.00
59	10-64	Nelle G. Tuttle	WB40/552	15.02
60	10-65.3	Nelle G. Tuttle	387/294	0.56
61	10-65.1	Alan R. & Cathy Pryor	285/431	2.49
62	10-65	Cathy Ann Pryor & Pamela Sue Billiter	426/741	37.65
63	10-63	Kimberly J. Sutter & Steven R. Huffman	404/339	1.25
64	10-62	James Paul & Cheryl Lynn Powell	342/188	4.00
65	10-54	Fredrick H. & Connie S. Thomas	337/298	14.57
66	10-48.1	Richard B. & Nancy Stender	294/242	5.00

WV Department of Environmental Protection

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 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.  
 Denver, CO 80202 Bridgeport, WV 26330

06/28/2024

Exhibit 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	11/1/2023	25993.0	25949.0	36	Marcellus
2	11/1/2023	25910.7	25746.0	36	Marcellus
3	11/2/2023	25710.6	25546.0	36	Marcellus
4	11/2/2023	25510.6	25345.9	36	Marcellus
5	11/2/2023	25310.6	25145.9	36	Marcellus
6	11/3/2023	25110.6	24945.9	36	Marcellus
7	11/3/2023	24910.6	24745.9	36	Marcellus
8	11/3/2023	24710.5	24545.8	36	Marcellus
9	11/3/2023	24510.5	24345.8	36	Marcellus
10	11/3/2023	24310.5	24145.8	36	Marcellus
11	11/3/2023	24110.5	23945.8	36	Marcellus
12	11/4/2023	23910.4	23745.8	36	Marcellus
13	11/6/2023	23710.4	23545.7	36	Marcellus
14	11/6/2023	23510.4	23345.7	36	Marcellus
15	11/6/2023	23310.4	23145.7	36	Marcellus
16	11/7/2023	23110.4	22945.7	36	Marcellus
17	11/7/2023	22910.3	22745.7	36	Marcellus
18	11/7/2023	22710.3	22545.6	36	Marcellus
19	11/7/2023	22510.3	22345.6	36	Marcellus
20	11/7/2023	22310.3	22145.6	36	Marcellus
21	11/7/2023	22110.2	21945.6	36	Marcellus
22	11/8/2023	21910.2	21745.5	36	Marcellus
23	11/8/2023	21710.2	21545.5	36	Marcellus
24	11/8/2023	21510.2	21345.5	36	Marcellus
25	11/8/2023	21310.2	21145.5	36	Marcellus
26	11/8/2023	21110.1	20945.5	36	Marcellus
27	11/8/2023	20910.1	20745.4	36	Marcellus
28	11/9/2023	20710.1	20545.4	36	Marcellus
29	11/9/2023	20510.1	20345.4	36	Marcellus
30	11/9/2023	20310.1	20145.4	36	Marcellus
31	11/9/2023	20110.0	19945.3	36	Marcellus
32	11/9/2023	19910.0	19745.3	36	Marcellus
33	11/10/2023	19710.0	19545.3	36	Marcellus
34	11/10/2023	19510.0	19345.3	36	Marcellus
35	11/10/2023	19309.9	19145.3	36	Marcellus
36	11/10/2023	19109.9	18945.2	36	Marcellus
37	11/11/2023	18909.9	18745.2	36	Marcellus
38	11/11/2023	18709.9	18545.2	36	Marcellus
39	11/11/2023	18509.9	18345.2	36	Marcellus
40	11/11/2023	18309.8	18145.2	36	Marcellus
41	11/11/2023	18109.8	17945.1	36	Marcellus
42	11/12/2023	17909.8	17745.1	36	Marcellus
43	11/12/2023	17709.8	17545.1	36	Marcellus
44	11/12/2023	17509.7	17345.1	36	Marcellus
45	11/12/2023	17309.7	17145.0	36	Marcellus
46	11/13/2023	17109.7	16945.0	36	Marcellus
47	11/13/2023	16909.7	16745.0	36	Marcellus
48	11/13/2023	16709.7	16545.0	36	Marcellus
49	11/13/2023	16509.6	16345.0	36	Marcellus
50	11/14/2023	16309.6	16144.9	36	Marcellus
51	11/14/2023	16109.6	15944.9	36	Marcellus
52	11/14/2023	15909.6	15744.9	36	Marcellus
53	11/15/2023	15709.6	15544.9	36	Marcellus
54	11/15/2023	15509.5	15344.8	36	Marcellus
55	11/15/2023	15309.5	15144.8	36	Marcellus
56	11/15/2023	15109.5	14944.8	36	Marcellus
57	11/16/2023	14909.5	14744.8	36	Marcellus
58	11/16/2023	14709.4	14544.8	36	Marcellus
59	11/16/2023	14509.4	14344.7	36	Marcellus
60	11/17/2023	14309.4	14144.7	36	Marcellus
61	11/17/2023	14109.4	13944.7	36	Marcellus
62	11/17/2023	13909.4	13744.7	36	Marcellus
63	11/17/2023	13709.3	13544.7	36	Marcellus
64	11/17/2023	13509.3	13344.6	36	Marcellus
65	11/18/2023	13309.3	13144.6	36	Marcellus
66	11/18/2023	13109.3	12944.6	36	Marcellus
67	11/18/2023	12909.2	12744.6	36	Marcellus
68	11/18/2023	12709.2	12544.5	36	Marcellus
69	11/19/2023	12509.2	12344.5	36	Marcellus
70	11/19/2023	12309.2	12144.5	36	Marcellus
71	11/19/2023	12109.2	11944.5	36	Marcellus
72	11/19/2023	11909.1	11744.5	36	Marcellus
73	11/20/2023	11709.1	11544.4	36	Marcellus
74	11/20/2023	11509.1	11344.4	36	Marcellus
75	11/20/2023	11309.1	11144.4	36	Marcellus
76	11/20/2023	11109.1	10944.4	36	Marcellus
77	11/21/2023	10909.0	10744.3	36	Marcellus
78	11/21/2023	10709.0	10544.3	36	Marcellus
79	11/21/2023	10509.0	10344.3	36	Marcellus
80	11/21/2023	10309.0	10144.3	36	Marcellus
81	11/22/2023	10108.9	9944.3	36	Marcellus
82	11/22/2023	9908.9	9744.2	36	Marcellus
83	11/22/2023	9708.9	9544.2	36	Marcellus
84	11/22/2023	9508.9	9344.2	36	Marcellus
85	11/23/2023	9308.9	9144.2	36	Marcellus
86	11/23/2023	9108.8	8944.2	36	Marcellus
87	11/23/2023	8908.8	8744.1	36	Marcellus
88	11/23/2023	8708.8	8544.1	36	Marcellus
89	11/24/2023	8508.8	8344.1	36	Marcellus
90	11/24/2023	8308.8	8144.1	36	Marcellus
91	11/24/2023	8108.7	7944.0	36	Marcellus
92	11/24/2023	7908.7	7744.0	36	Marcellus
93	11/24/2023	7708.7	7544.0	36	Marcellus


06/28/2024



EXHIBIT 2

Stage No.	Stimulations Date	Avg Pump Rate	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/ other (units)
1	11/1/2023	73.5	9691.9	10536.77	3908.0	166580	4996.0	N/A
2	11/1/2023	82.5	9774.8	5896.23	4223.7	433482	8182.7	N/A
3	11/2/2023	83.0	10372.5	5724.83	3624.2	410580	7121.7	N/A
4	11/2/2023	82.1	10461.9	5878.62	3531.3	413120	7042.5	N/A
5	11/2/2023	81.6	10273.7	5544.26	3873.9	419860	7357.3	N/A
6	11/3/2023	83.9	10170.8	4897.63	4053.0	417780	7063.8	N/A
7	11/3/2023	79.0	10472.0	5206.67	3534.8	415580	6892.4	N/A
8	11/3/2023	77.2	10367.9	5597.12	3793.5	420820	7119.0	N/A
9	11/3/2023	81.7	10276.9	5849.79	3837.1	380840	7367.5	N/A
10	11/3/2023	78.9	10198.1	5675.87	4031.1	408920	7291.7	N/A
11	11/3/2023	81.0	10209.1	5029.65	3879.7	409320	7336.0	N/A
12	11/4/2023	79.6	10086.5	5502.75	3795.2	411966	7488.9	N/A
13	11/6/2023	34.4	5951.1	5548.03	4620.0	331460	12346.5	N/A
14	11/6/2023	87.4	10201.4	5415.58	3944.1	415710	7240.1	N/A
15	11/6/2023	81.6	9865.4	5818.27	3654.2	412880	7268.2	N/A
16	11/7/2023	83.0	10057.2	5423.07	3462.0	417820	7563.1	N/A
17	11/7/2023	84.7	9883.1	5357.6	3682.6	420240	7498.2	N/A
18	11/7/2023	90.7	10429.0	5321.51	3665.5	414440	7479.0	N/A
19	11/7/2023	91.0	10278.4	5446.71	3668.4	413700	7627.9	N/A
20	11/7/2023	89.1	10265.2	5321.7	3475.8	420000	7438.5	N/A
21	11/7/2023	89.5	10072.0	5519.3	3607.4	427420	7589.7	N/A
22	11/8/2023	86.4	10025.7	5132.22	3817.9	415320	7079.7	N/A
23	11/8/2023	93.7	10343.8	4952.03	3957.5	411660	6972.9	N/A
24	11/8/2023	95.8	10347.5	5427.67	3968.0	409780	7214.5	N/A
25	11/8/2023	95.7	10250.8	5691.5	3619.2	417460	7418.2	N/A
26	11/8/2023	87.9	9628.1	5297.9	3630.2	416120	7689.2	N/A
27	11/8/2023	90.3	9865.1	5027.86	3750.4	415180	7359.0	N/A
28	11/9/2023	92.9	9924.6	5445.02	3592.1	419480	7495.1	N/A
29	11/9/2023	93.7	10064.7	5278.66	4080.0	417440	7117.5	N/A
30	11/9/2023	95.3	10116.1	5425.53	3596.9	420840	7214.4	N/A
31	11/9/2023	96.0	9996.5	5106.88	3641.1	424700	7424.6	N/A
32	11/9/2023	95.4	10174.4	5330.48	3487.9	412240	7405.8	N/A
33	11/10/2023	95.8	9796.3	5106.34	3884.8	419800	7352.0	N/A
34	11/10/2023	95.2	9819.0	5484.23	3803.8	412080	7128.9	N/A
35	11/10/2023	95.4	9746.0	5518.6	3919.7	420200	7505.4	N/A
36	11/10/2023	91.1	9496.6	5109.78	3521.3	424560	7896.0	N/A
37	11/11/2023	88.9	9476.5	5337.28	3722.0	420120	7773.4	N/A
38	11/11/2023	93.5	9786.6	5089.6	3679.4	422720	7653.0	N/A
39	11/11/2023	93.6	9744.6	5319.61	3924.0	419840	7842.9	N/A
40	11/11/2023	88.1	9131.4	5326.49	4095.6	417800	7539.9	N/A
41	11/11/2023	87.7	9060.8	5242.59	3731.8	421040	7767.3	N/A
42	11/12/2023	90.1	9197.5	5568.24	3670.9	417620	7732.4	N/A
43	11/12/2023	91.4	9059.3	5413.68	3873.2	423240	7643.1	N/A
44	11/12/2023	91.0	9021.9	5161.07	3733.0	419880	7465.6	N/A
45	11/12/2023	89.3	8810.3	5671.52	3522.1	419580	7644.5	N/A
46	11/13/2023	87.5	8736.1	5120.95	3734.9	413960	7507.0	N/A
47	11/13/2023	90.1	8985.2	5132.76	3545.3	417320	7214.9	N/A
48	11/13/2023	89.0	8819.4	5119.77	3255.0	417220	7664.2	N/A
49	11/13/2023	87.1	8497.2	5005.05	3286.4	423840	7660.1	N/A
50	11/14/2023	91.6	8884.6	5161.13	3292.2	422020	8146.0	N/A
51	11/14/2023	95.5	9504.7	5097.11	3348.1	416840	7361.4	N/A
52	11/14/2023	94.2	9154.8	4964.95	3289.0	416560	7548.1	N/A
53	11/15/2023	93.2	9351.8	5873.04	3279.4	414880	8040.0	N/A
54	11/15/2023	95.2	9052.8	4606.37	3446.1	417240	7362.0	N/A
55	11/15/2023	95.5	9088.4	4612.38	3402.3	412800	7316.4	N/A
56	11/15/2023	93.9	9170.2	5601.15	3419.0	416680	7725.8	N/A
57	11/16/2023	95.6	8947.9	5174.88	3316.3	420300	7661.1	N/A
58	11/16/2023	95.6	8801.4	4848.7	3496.5	418300.0	7366.6	N/A
59	11/16/2023	96.3	8957.0	5066.5	3542.0	420620.0	7443.1	N/A
60	11/17/2023	97.2	8780.5	5054.6	3165.6	418200.0	7603.9	N/A
61	11/17/2023	97.5	9033.0	5018.9	3289.2	412140.0	7023.5	N/A
62	11/17/2023	97.3	9059.8	4994.1	3363.0	420260.0	6929.2	N/A
63	11/17/2023	96.0	8609.8	5133.7	3265.9	417760.0	7556.3	N/A
64	11/17/2023	94.0	8906.8	4949.1	3209.7	411780.0	7379.9	N/A
65	11/18/2023	93.5	8842.3	5367.0	3395.8	412160.0	6993.9	N/A
66	11/18/2023	94.0	8736.4	6050.5	3362.1	414980.0	7041.6	N/A
67	11/18/2023	95.4	8853.7	5416.9	3300.5	415640.0	6743.3	N/A
68	11/18/2023	95.0	8592.8	5339.5	3495.7	410490.0	7286.6	N/A
69	11/19/2023	95.5	8672.1	5591.9	3417.5	408940.0	7179.7	N/A
70	11/19/2023	96.0	8595.5	5916.4	3575.3	417060.0	6961.5	N/A
71	11/19/2023	96.9	8743.5	5876.2	3949.6	414180.0	9424.7	N/A
72	11/19/2023	95.9	8579.6	5782.0	3420.7	418300.0	7495.5	N/A
73	11/20/2023	95.3	8374.0	6043.2	3698.6	418120.0	7121.6	N/A
74	11/20/2023	95.3	8239.4	5859.8	3661.4	417400.0	6882.4	N/A
75	11/20/2023	95.8	7985.8	6074.0	3819.4	418340.0	7100.4	N/A
76	11/20/2023	96.4	7948.5	5846.0	3046.7	415400.0	7154.3	N/A
77	11/21/2023	96.0	8203.3	6009.0	3273.7	405960.0	6923.0	N/A
78	11/21/2023	95.8	8446.0	5946.8	3499.0	415700.0	6774.0	N/A
79	11/21/2023	95.8	8006.2	5280.9	3510.3	417760.0	7180.9	N/A
80	11/21/2023	95.0	8114.8	5904.1	3359.0	415780.0	7103.8	N/A
81	11/22/2023	95.8	7940.6	5677.5	3743.3	414380.0	7106.2	N/A
82	11/22/2023	96.1	8261.2	5239.9	3676.8	415580.0	6736.6	N/A
83	11/22/2023	95.1	8052.2	5667.1	3342.5	419600.0	7097.8	N/A
84	11/22/2023	93.6	7783.1	5673.4	3426.2	417140.0	7084.0	N/A
85	11/23/2023	95.1	7819.9	5609.2	4108.9	412380.0	6984.2	N/A
86	11/23/2023	95.3	7924.0	4676.4	3870.4	406340.0	6985.7	N/A
87	11/23/2023	95.6	7922.5	5392.0	3602.6	414200.0	6834.1	N/A
88	11/23/2023	93.8	7721.7	6038.2	3676.8	402880.0	6914.1	N/A
89	11/24/2023	95.5	7735.5	5534.4	3532.2	409000.0	6826.4	N/A
90	11/24/2023	96.1	7927.7	6097.8	3713.8	407700.0	6644.4	N/A
91	11/24/2023	95.8	7542.8	5706.8	3989.0	417880.0	6791.1	N/A
92	11/24/2023	96.8	7341.9	5858.9	3669.5	419740.0	6953.0	N/A
93	11/24/2023	97.0	7357.9	5606.5	3499.2	415360.0	6704.0	N/A
AVERAGE		91	9,127	5,480	3,632	38,358,328	684,185	N/A

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## EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Shaley Sandstone	624	724	624	724
Sandy Shale	724	774	724	774
Shale	774	824	774	824
Sandy Shale	824	874	824	874
Shale	874	1,024	874	1,024
Sandy Shale	1,024	1,124	1,024	1,124
Sandy Shale	1,124	1,224	1,124	1,224
Shaley Sandstone	1,224	1,324	1,224	1,324
Sandstone, Tr Shale	1,324	1,424	1,324	1,424
Shale, Tr Sandstone	1,424	1,524	1,424	1,524
Sandy Shale	1,524	1,624	1,524	1,624
Shale, tr Sandstone	1,624	1,774	1,624	1,774
Sandy Shale	1,774	1,797	1,774	1,898
Big Lime	1,823	2,698	1,898	2,993
Fifty Foot Sandstone	2,698	2,792	2,967	3,107
Gordon	2,792	2,918	3,081	3,262
Fifth Sandstone	2,918	3,158	3,236	3,558
Bayard	3,158	3,861	3,532	4,421
Speechley	3,861	4,100	4,395	4,712
Balltown	4,100	4,556	4,686	5,256
Bradford	4,556	4,863	5,230	5,618
Benson	4,863	5,093	5,592	5,896
Alexander	5,093	6,132	5,870	7,174
Sycamore	6,003	6,106	6,987	7,148
Middlesex	6,106	6,194	7,148	7,329
Burkett	6,194	6,232	7,329	7,434
Marcellus	6,232	NA	7,434	NA

\*Please note Antero determines formation tops based on mud logs that are only run on one well on a multi-well pad. The measured depth (MD) data on subsequent wells may be slightly different due to the well's unique departure.

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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/01/2023
Job End Date:	11/01/2023
State:	West Virginia
County:	Tyler
API Number:	47-095-02870-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	TANGERINE UNIT 2H
Latitude:	39.5534
Longitude:	-80.9115
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6297
Total Base Water Volume (gal)*:	30514538.5
Total Base Non Water Volume:	0



Water Source	Percent
Produced Water	100.00%

## Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
FDP-S1464-22	Halliburton	Friction Reducer					
HAI-501	Halliburton	Acid Corrosion Inhibitor					
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
MC B-8614A	MultiChem	Biocide					
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
Produced Water	Operator	Base Fluid					
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
WG-36 GELLING AGENT	Halliburton	Gelling Agent					

Items above are Trade Names. Items below are the individual ingredients.

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			Water	7732-18-5	100.00000	86.72684	
			Crystalline silica, quartz	14808-60-7	100.00000	13.07196	
			Water	7732-18-5	100.00000	0.16870	
			Hydrochloric acid	7647-01-0	30.00000	0.03772	
			Complex amine compound	Proprietary	60.00000	0.03474	
			Hydrotreated distillate	Proprietary	30.00000	0.01737	
			Guar gum	9000-30-0	100.00000	0.00896	
			Ammonium chloride	12125-02-9	5.00000	0.00290	
			Ethoxylated alcohol	Proprietary	5.00000	0.00290	
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00290	
			Glutaraldehyde	111-30-8	30.00000	0.00247	
			Sorbitan, mono-9-octadecenoate, (z)	1338-43-8	1.00000	0.00058	
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00058	
			Quaternary ammonium compound	68424-85-1	5.00000	0.00041	
			Methyl Alcohol	67-56-1	100.00000	0.00024	
			Ammonium persulfate	7727-54-0	100.00000	0.00016	
			Ethanol	64-17-5	1.00000	0.00008	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00007	
			Modified thiourea polymer	Proprietary	30.00000	0.00007	
			Oxylated phenolic resin	Proprietary	30.00000	0.00005	
			Propargyl alcohol	107-19-7	5.00000	0.00001	
			Hexadecene	629-73-2	5.00000	0.00001	
			Ethoxylated alcohols	Proprietary	5.00000	0.00001	
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00000	

\* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

\*\* Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

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Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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